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# RABIES VACCINE (DUCK EMBRYO) DRIED KILLED VIRUS (DEV)

NOTE: Because of better antibody response and lower incidence of adverse effects, Rabies Vaccine, Human Diploid Cell Culture (HDCV) (see page 454b) is the preferred vaccine. The Duck Embryo vaccine (DEV) is effective and should be used if HDCV is not available.

## Actions:

It has been demonstrated that rabies vaccine of duck embryo origin produces antibodies in most patients by the tenth day and in almost all subjects by the fifteenth day after the beginning of a course of at least fourteen daily doses.

#### Indications:

Postexposure immunization: Indicated for active immunization in all persons suspected of exposure to rabies. Guidelines for prophylaxis of rabies are given on page 453. In addition to rabies vaccine, rabies immune globulin is indicated in postexposure prophylaxis. There is evidence that serum administered concurrently with vaccine interferes with the development of active immunity. If serum is used, give supplementary doses of vaccine ten and twenty days after the last usual dose.

Preexposure immunization: Vaccination with duck embryo rabies vaccine before exposure occurs may be desirable for certain high risk individuals. These may include veterinarians, deliverymen, meter readers, spelunkers, and laboratory personnel working with rabies virus.

### Warnings

Usage in Pregnancy: Safety for use during pregnancy has not been established; however, when postexposure rabies immunization is indicated, pregnancy has not been considered to be a contraindication to use of this killed virus vaccine.

#### Precautions:

Use caution when administering the vaccine to persons with a history of allergy, especially when the allergy is to chicken or duck eggs or proteins.

Adrenocorticotropin and adrenal corticosteroids may reduce host resistance to certain infectious agents either through suppression of antibody response or through other and as yet poorly understood mechanisms. Therefore, they should not be administered following exposure to infectious agents (such as rabies) for which no satisfactory antimicrobial therapy is available. To do so may alter the host-parasite relationship sufficiently to cause severe or fatal illness in spite of prophylactic administration of a vaccine. Under these circumstances, the occurrence of disease, actually due to the altered pattern of resistance, might be attributed to a vaccine failure.

## **Adverse Reactions:**

Local reactions: Local reactions to the injected material have been observed to be fewer and somewhat less severe than those seen with vaccines of brain origin. Tenderness at the injection site is common. Varying degrees of local erythema and induration have been observed; these reactions tend to appear from the sixth to the tenth day of treatment, but may occur after each inoculation. Subsequent injections are likely to cause flare ups at the sites of previous inoculations. Regional lymphadenopathy may also be encountered.

Systemic sensitivity: Since this material is protein and foreign to the human body, systemic sensitivity to the vaccine may be encountered. Unticaria, respiratory distress (including dyspnea and bronchospasm) and gastrointestinal disorders (e.g., abdominal cramps, nausea, vomiting, diarrhea) have occurred. Anaphylactic reactions have been reported. In one prospective study, anaphylaxis was observed in 0.5 to 0.9% of recipients. Epinephrine may be helpful in controlling these situations. Patients with a history of allergy should be tested for hypersensitivity before the vaccine is administered.

CNS: Constitutional reactions are difficult to evaluate because of the patient's tendency to be apprehensive about the situation, but the development of fever, malaise and drowsing the processive of the patient's tendency to be apprehensive about the situation. But the development of fever, malaise and drowsing the processive of the patient's tendency to the processive of the patient's tendency to the processive of the patient's tendency to the processing tendency to the patient of the patient's tendency to the patient's tendency tend

CNS: Constitutional reactions are difficult to evaluate because of the patient's tendency to be apprehensive about the situation, but the development of fever, malaise and drowsiness calls for careful observation. Minor neurologic reactions, such as headache, photophobia, paresthesias, listlessness, malaise, and increased fatigability, have been reported. Major neurologic reactions temporally associated with vaccine therapy have been reported rarely. These include transverse myelitis, cranial or peripheral palsy and encephalitis. If symptoms appear that indicate central nervous system involvement, discontinue vaccine injections.

(Continued on following page)

November, 1980 by Facts and Comparisons, Inc.